



09/438,358
Applicant Copy
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Page 1 of 44

FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001/RWE/BJD/JKM	APPLICATION NO. 09/438,358
	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

U.S. PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
AA2	A05	EP 0 220 009 A2	04/29/1987	Europe	X	X	Yes No
AA2	AP5	EP 0 427 074 A2	05/15/1991	Europe	X	X	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
AA2	AS	67	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (May 1997).
AA2	AT	67	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," Mol. Cell. Biol. 17:857-861, American Society for Microbiology (February 1997).

EXAMINER <i>Donald S. Lipp</i>	DATE CONSIDERED 8-5-04
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* All References Considered



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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AA2	AL6	WO 91/09957 A1	07/11/1991	WIPO PCT			Yes No
	AM6	WO 92/15694 A1	09/17/1992	WIPO PCT			Yes No
	AN6	EP 0 542 466 A2	05/19/1993	Europe			Yes No
	AO6	WO 94/03624 A1	02/17/1994	WIPO PCT			Yes No
AA2	AP6	WO 94/18333 A1	08/18/1994	WIPO PCT			Yes No

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AA2	AR	68	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," Proc. Natl. Acad. Sci. USA 97:10424-10429, National Academy of Sciences (2000).
	AS	68	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," Nucl. Acids Res. 26:3263-3269, Oxford University Press (July 1998).
AA2	AT	68	Astumian, J.H., et al., "Site-Specific Recombination between Cloned attP and attB Sites from the Haemophilus influenzae Bacteriophage HP1 Propagated in Recombination-Deficient Escherichia coli," J. Bacteriol. 171:1747-1750, American Society for Microbiology (1989).

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AA2	AL7	WO 96/04393 A2	02/15/1996	WIPO PCT	X	X	Yes No
	AM7	WO 96/30498 A1	10/03/1996	WIPO PCT			Yes No
	AN7	WO 96/40722 A1	12/19/1996	WIPO PCT			Yes No
	AO7	WO 96/40724 A1	12/19/1996	WIPO PCT			Yes No
AA2	AP7	WO 00/12687 A1	03/09/2000	WIPO PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA2	AR	69	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press (1993).
	AS	69	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (1996).
AA2	AT	69	Barnes, G., and Rine, J., "Regulated expression of endonuclease EcoRI in Saccharomyces cerevisiae: Nuclear entry and biological consequences," Proc. Natl. Acad. Sci. USA 82: 1354-1358, National Academy of Sciences (1985).

EXAMINER <i>B. L. J.</i>	DATE CONSIDERED 8-5-04
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AA2	ALB	WO 01/62892 A2	08/30/2001	WIPO PCT	X	X	Yes No
AA2	AM8	WO 02/05294 A1	01/17/2002	WIPO PCT	X	X	Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AA2	AR	70	Bauer, C.E. et al., "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," J. Mol. Biol. 181:187-197, Academic Press Inc. (1985).
	AS	70	Bernard, P. et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," J. Mol. Biol. 234:534-541, Academic Press (1993).
AA2	AT	70	Bernard, P., et al., "Positive-selection vectors using the F plasmid ccdB killer gene," Gene 148:71-74, Elsevier Science B.V. (1994).

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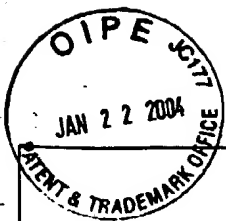
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AA2	AR	71	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).
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AA2	AT	71	Brent, R., and Ptashne, M., "A bacterial repressor protein or a yeast transcriptional terminator can block upstream activation of a yeast gene," Nature 312: 612-615, Macmillan Journals Ltd. (1984).

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AA2	AR	72	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," <i>Res. Virol.</i> 148:161-164, Elsevier (March-April 1997).
↓	AS	72	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," <i>Mol. Cell. Biol.</i> 6:3059-3067, American Society for Microbiology (1986).
AA2	AT	72	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).

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AA2	AR	73	Cherepanov, P.P., and Wackernagel, W., "Gene disruption in <i>Escherichia coli</i> : Tc ^r and Km ^r cassettes with the option of FLP-catalyzed excision of the antibiotic-resistance determinant," <i>Gene</i> 158:9-14, Elsevier Science B.V. (1995).
↓	AS	73	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (June 1997).
AA2	AT	73	Chouluka, A., et al., "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site." <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).

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AA2	AR	74	Chuang, C.-F., and Meyerowitz, E.M., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (2000).
	AS	74	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1988).
AA2	AT	74	CLONTECH, "Creator™ Gene Cloning & Expression System," <i>CLONTECHniques</i> 15:7-11, CLONTECH (2000).

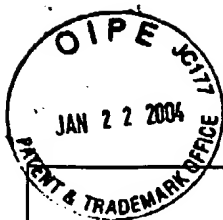
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AAJ	AR	75	CLONTECH, "New Additions to the Creator™ Platform," CLONTECHniques 16:1-4, CLONTECH (2001).
	AS	75	CLONTECH, "New Creator™ -Compatible Expression Systems," CLONTECHniques 15:2 pages, CLONTECH (2000).
V AAJ	AT	75	CLONTECH, "Creator™ Acceptor Vector Construction Kit" CLONTECHniques 16:2 pages, CLONTECH (2001).

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AA2	AR	76	CLONTECH, "Creator" SMART Library Construction Kit," CLONTECHniques 16:2 pages, CLONTECH (2001).
AA2	AS	76	CLONTECH, "Creator": The Universal Platform for Analysis of Gene Function," Powerpoint Presentation, pp. 1-9, CLONTECH (2001), available at http://www.clontech.com/products/families/creator/popups/slpage1.html .
AA2	AT	76	CLONTECH, "Creator" pDNR-Dual Cloning Kit," CLONTECHniques 16:3 pages, CLONTECH (2001).

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	AS	77	Cormack, B., "Directed Mutagenesis Using the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 8.5.1-8.5.10 (January 1997).
AA2	AT	77	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," <i>Nucl. Acids Res.</i> 27:1300-1307, Oxford University Press (March 1999).

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AA2	AR	78	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42</i> ^{G12V} and Dominant Negative <i>cdc42</i> ^{G116A} Mutations," <i>J. Biol. Chem.</i> 273:849-858, The American Society for Biochemistry and Molecular Biology (January 1998).
	AS	78	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," <i>Appl. Environ. Microbiol.</i> 65:523-528, American Society for Microbiology (February 1999).
AA2 ↓	AT	78	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," <i>Proc. Natl. Acad. Sci. USA</i> 95:1356-1357, National Academy of Sciences (February 1998).

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AA2	AR	79	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat." <i>EMBO J.</i> 4:761-767, IRL Press Limited (1985).
	AS	79	Enquist, L.W., and Weisberg, R.A., "The Red Plaque Test: A Rapid Method for Identification of Excision Defective Variants of Bacteriophage Lambda," <i>Virology</i> 72: 147-153, Academic Press, Inc. (1976).
AA2	AT	79	Esposito, D., and Scoocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (September 1997).

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AA2	AR	80	Feinbaum, R., "Vectors Derived from Plasmids," in <i>Current Protocols in Molecular Biology</i> , Ausubel, P. M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp.1.5.1-1.5.17 (January 1998).
	AS	80	Flanagan, P.M., and Fennwald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by Tn3 Resolvase," <i>J. Mol. Biol.</i> 206:295-304, Academic Press (1989).
AA2	AT	80	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (July 1999).

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FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	0942.4640001/RWE/BJD/JKM	09/438,358
	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA2	AR	81	Francia, M.V., et al., "The Int11 Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," J. Bacteriol. 181:6844-6849, American Society for Microbiology (November 1999).
↓	AS	81	Gateway™ Cloning Technology, Version 1, GIBCO BRL, Life Technologies Instruction Manual, [retrievable from <http://www.lifetech.com/gateway>], pp. 1-60 (November 1999).
AA2	AT	81	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," J. Bacteriol. 164:918-921, American Society for Microbiology (1985).

EXAMINER	<i>H. Lippert</i>	DATE CONSIDERED	8-5-04
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BBJ ↓ BBJ	AR	82	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).
	AS	82	Gorman, C.M., et al. "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," <i>Proc. Natl. Acad. Sci. USA</i> 79:6777-6781, National Academy of Sciences (1982).
	AT	82	Grindley, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).

EXAMINER A. Kupp. J.	DATE CONSIDERED 8-5-04
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FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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BAZ	AR	83	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists (1985).
	AS	83	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the <i>Cin</i> recombinase have a relaxed topological specificity," <i>EMBO J.</i> 7:3991-3996, IRL Press (1988).
BAZ	AT	83	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," <i>Proc. Natl. Acad. Sci. USA</i> 97:8856-8861, National Academy of Sciences (2000).

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FORM PTO-1449
FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

APPLICANT
Gerard et al.

FILING DATE
November 12, 1999

GROUP
1636


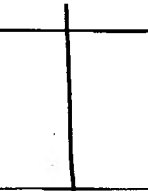

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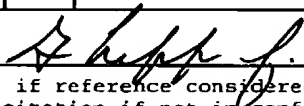
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	AR	84	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science (1984).
	AS	84	Hochuli, E., et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent," <i>Bio/Technology</i> 6:1321-1325, Nature Publishing Company (1988).
	AT	84	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).

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09/438,358

APPLICANT
Gerard et al.

FILING DATE
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GROUP
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AA2	AR	85	Iida, S., et al., "A site-specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the C segment." <i>EMBO J.</i> 1:1445-1453, IRL Press Limited (1982).
↓	AS	85	Iino, T., and Kutsukake, K., "Trans-acting Genes of Bacteriophages P1 and Mu Mediate Inversion of a Specific DNA Segment Involved in Flagellar Phase Variation of <i>Salmonella</i> ," <i>Cold Spring Harbor Symposia on Quantitative Biology</i> 45: 11-16, Cold Spring Harbor Laboratory (1981).
AA2	AT	85	Johnson, R.C., et al., "Isolation of the gene encoding the Hin recombinational enhancer binding protein," <i>Proc. Natl. Acad. Sci. USA</i> 85:3484-3488, National Academy of Sciences (1988).

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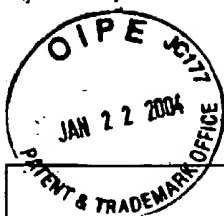
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AA2	AR	86	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the blaA gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).
	AS	86	Katz, L., et al., "Site-specific recombination in <i>Escherichia coli</i> between the att sites of plasmid pSE211 from <i>Saccharopolyspora erythraea</i> ," <i>Mol. Gen. Genet.</i> 227: 155-159, Springer-Verlag (1991).
AA2	AT	86	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (January 1998).

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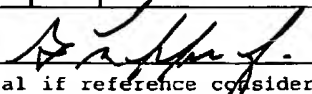


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AA2	AR	87	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioengineer.</i> 59:239-247, John Wiley & Sons (July 1998).
	AS	87	Kim, D.W., "Use of the human elongation factor 1 α promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).
AA2	AT	87	Klippel, A. et al., "Isolation and characterization of unusual <i>gin</i> mutants," <i>The EMBO Journal</i> 7: 3983-3989, IRL Press Inc. (1988).

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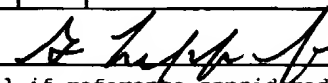
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	88	Koch, C., et al., "Escherichia coli host factor for site-specific DNA inversion: Cloning and characterization of the <i>fis</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> 85:4237-4241, National Academy of Sciences (1988).
	AS	88	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (1996).
AA2	AT	88	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," <i>Genome Res.</i> 8:666-672, Cold Spring Harbor Laboratory Press (June 1998).

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AAZ	AR	89	Krautwald, S., and Baccarini, M., "Bacterially Expressed Murine CSF-1 Possesses Agonistic Activity in its Monomeric Form," <i>Biochem. Biophys. Res. Commun.</i> 192: 720-727, Academic Press (1993).
	AS	89	Langeveld, S.A. et al., "Expression of an <i>Escherichia coli</i> <i>phr</i> gene in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Gen. Genet.</i> 199: 396-400, Springer-Verlag (1985).
↓ AAZ	AT	89	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (1995).

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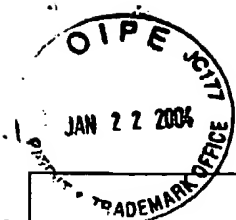
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	90	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (1995).
	AS	90	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).
AA2	AT	90	Lu, F., and Churchward, G., "Conjugative transposition: Tn916 integrase contains two independent DNA binding domains that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548, Oxford University Press (1994).

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November 12, 1999GROUP
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PP2	AR	91	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Rev.</i> 63:21-53, American Society for Microbiology (March 1999).
	AS	91	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology (October 1999).
PP2	AT	91	Mahillon, J., et al., "Subdivision of the <i>Escherichia coli</i> K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," <i>Gene</i> 223:47-54, Elsevier Science B.V. (November 1998).

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AAZ	AR	92	Malynn, B.A., et al., "The scid Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," Cell 54:453-460, Cell Press (1988).
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↓ AAZ	AT	92	Manning, P.A., et al., "Gene capture in <i>Vibrio cholerae</i> ," Trends Microbiol. 7:93-95, Elsevier Science (March 1999).

EXAMINER <i>R. H. H. J.</i>	DATE CONSIDERED 8-5-04
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Gerard et al.

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AAJ	AR	93	Mendiola, M.V., and de la Cruz, F., "Specificity of insertion of IS91, an insertion sequence present in α -haemolysin plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
	AS	93	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related β -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).
AAZ	AT	93	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZ</i> α for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	94	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," EMBO J. 19:5194-5201, Oxford University Press (2000).
	AS	94	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," Nucl. Acids Res. 15:6469-6488, IRL Press (1987).
↓ AA2	AT	94	Miller, H.I. et al., "int-h: an int Mutation of Phage λ That Enhances Site-Specific Recombination," Cell 20: 721-729, MIT (1980).

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FORM PTO-1449

FIFTH SUPPLEMENTAL
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0942.4640001/RWE/BJD/JKMAPPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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AR	95	Mizushima, S., and Nagata, S., "pEF-BOS, a powerful mammalian expression vector," Nucl. Acids Res. 18:5322, Oxford University Press (1990).
AS	95	Murayama, N., et al., "Evidence for Involvement of <i>Escherichia coli</i> Genes <i>pmbA</i> , <i>csrA</i> and a Previously Unrecognized Gene <i>tldD</i> , in the Control of DNA Gyrase by <i>letD</i> (<i>ccdB</i>) of Sex Factor F," J. Mol. Biol. 256:483-502, Academic Press Limited (1996).
AT	95	Nash, H.A., and Robertson, C.A., "Purification and Properties of the <i>Escherichia coli</i> Protein Factor Required for λ Integrative Recombination," J. Biol. Chem. 256:9246-9253, American Society for Biochemistry and Molecular Biology (1981).

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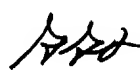
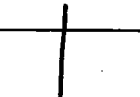
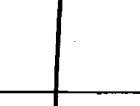
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	AR	96	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (1994).
	AS	96	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," <i>Appl. Environ. Microbiol.</i> 63:4713-4720, American Society for Microbiology (December 1997).
	AT	96	Okayama, H., and Berg, P., "Bacteriophage Lambda Vector for Transducing a cDNA Clone Library into Mammalian Cells," <i>Molecular and Cellular Biology</i> 5: 1136-1142, American Society for Microbiology (1985).

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AAZ	AR	97	Osuna, R., et al., "Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion by not λ excision," <i>EMBO J.</i> 10:1593-1603, Oxford University Press (1991).
	AS	97	Pal, S.K., et al., "P1 Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).
AAZ	AT	97	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (February 1998).

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AA2	AR	98	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (2000).
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AA2 ↓	AT	98	Persson, M.A.A., "Combinatorial Libraries," <i>Intern. Rev. Immunol.</i> 10:153-163, Harwood Academic Publishers GmbH (1993).

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A. Huffer

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	FILING DATE November 12, 1999	GROUP 1636

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AA2	AR	99	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," Mol. Cell. Biol. 15:6593-6600, American Society for Microbiology (1995).
	AS	99	Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," Nucl. Acids Res. 26:3445-3446, Oxford University Press (July 1998).
AA2	AT	99	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of Escherichia coli W: Engineering a Mobile Aromatic Degradative Cluster," J. Bacteriol. 178:111-120, American Society for Microbiology (1996).

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AA2	AR	100	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (1995).
	AS	100	Ross, W., and Landy, A., "Patterns of λ Int Recognition in the Regions of Strand Exchange," Cell 33:261-272, The MIT Press (1983).
AA2 ↓	AT	100	Sambrook, J., et al., Molecular Cloning: A Laboratory Manual, 2nd ed., Cold Spring Harbor Laboratory Press, New York, NY, pp. 16.6-16.8, (1989).

EXAMINER <i>H. Kuppert</i>	DATE CONSIDERED 8-5-04
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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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	AM						Yes No
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	AP						Yes No

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AA2	AR	101	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press (1992).
	AS	101	Sato, T., et al., "The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172:1092-1098, American Society for Microbiology (1990).
V AA2	AT	101	Sauer, B., and Henderson, N., "Site-specific DNA recombination in mammalian cells by the Cre recombinase of bacteriophage P1," Proc. Natl. Acad. Sci. USA 85: 5166-5170, National Academy of Sciences (1988).

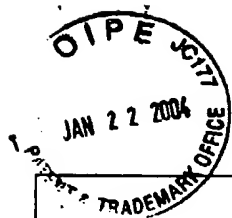
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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	102	Sauer, B., "Expression and Functioning in Yeast of a Bacterial Site Specific Recombination System," J. Cell. Bio. Chem. Supp. 10(b): 242 (I340), Alan R. Liss, Inc. (1986).
	AS	102	Schild, D., et al., "Cloning of three human multifunction de novo purine biosynthetic genes by functional complementation of yeast mutations," Proc. Natl. Acad. Sci. USA 87:2916-2920, National Academy of Sciences (1990).
AA2	AT	102	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," Microbiol. Mol. Biol. Rev. 62:775-806, American Society for Microbiology (September 1998).

EXAMINER <i>D. Leppner</i>	DATE CONSIDERED <i>8-5-04</i>
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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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RAZ	AR	103	Scott, S.D., and Marples, B., "Comment on the use of the cre/loxP recombinase system for gene therapy vectors," <i>Gene Therapy</i> 7:1706, Macmillan Publishers Ltd. (2000).
	AS	103	Shim, J., et al., "Distinct and Redundant Functions of μ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, The American Society for Cell Biology (2000).
RAZ ↓	AT	103	Skrally, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," <i>Appl. Environ. Microbiol.</i> 64:98-105, American Society for Microbiology (January 1998).

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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
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AA2	AR	104	Spinella, D.G., et al., "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," Nucl. Acids Res. 27(e22):i-viii, Oxford University Press (September 1999).
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AA2	AT	104	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," Proc. Natl. Acad. Sci. USA 95:7305-7309, National Academy of Sciences (June 1998).

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AD2	AR	105	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," <i>Trends Biochem. Sci.</i> 23:486-490, Elsevier Science (December 1998).
	AS	105	Stenzel, T.T., et al., "The Integration Host Factor of <i>Escherichia coli</i> Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," <i>Cell</i> 49:709-717, Cell Press (1987).
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AA2	AR	106	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," J. Bacteriol. 175:5993-6001, American Society for Microbiology (1993).
	AS	106	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 α ," J. Biol. Chem. 264:5791-5798, The American Society for Biochemistry and Molecular Biology (1989).
AA2	AT	106	van den Berg, A., et al., "Serial analysis of gene expression: rapid RT-PCR analysis of unknown SAGE tags," Nucl. Acids Res. 27(e17):i-iii, Oxford University Press (September 1999).

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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
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AAZ	AR	107	Vetter, D. et al., "Site-specific recombination of yeast 2- μ m DNA in vitro," Proc. Natl. Acad. Sci. USA 80: 7284-7288, National Academy of Sciences (1983).
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↓ ABZ	AT	107	Voziiyanov, Y., et al., "A general model for site-specific recombination by the integrase family recombinases," Nucl. Acids Res. 27:930-941, Oxford University Press (February 1999).

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H. Lippert

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AAZ	AR	108	Yoon, H., et al., "SSL1, a suppressor of a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," Genes Dev. 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).
	AS	108	Pending Non-Provisional United States Patent Application No. 09/648,790, Hartley et al., filed August 28, 2000 (NOT PUBLISHED). Not for Publication
AAZ	AT	108	Pending Non-Provisional United States Patent Application No. 10/680,316, Hartley et al., filed October 8, 2003 (NOT PUBLISHED). Not for Publication

EXAMINER <i>B. L. H. H.</i>	DATE CONSIDERED 8-5-04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.4640001/RWE/BJD/JKMAPPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AP2	AR	109	Pending Non-Provisional United States Patent Application No. 10/196,696, Hartley et al., filed March 26, 2003 (NOT PUBLISHED). <i>Not for Publication</i>
↓	AS	109	Pending Non-Provisional United States Patent Application No. 09/695,065, Brasch et al., filed October 25, 2000 (NOT PUBLISHED). <i>Not for Publication</i>
AP2	AT	109	Pending Non-Provisional United States Patent Application No. 09/984,239, Brasch et al., filed October 29, 2001 (NOT PUBLISHED). <i>Not for Publication</i>

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8-5-04

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FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001/RWE/BJD/JKM	APPLICATION NO. 09/438,358
	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

822	AR	110	Pending Non-Provisional United States Patent Application No. 10/640,422, Chec et al. filed August 14, 2003 (NOT PUBLISHED). <i>Not for Publication</i>
822	AS	110	Pending Non-Provisional United States Patent Application No. 10/454,793, Chesnut et al., filed June 5, 2003 (NOT PUBLISHED). <i>Not for Publication</i>
	AT		

EXAMINER <i>A. Lupp</i>	DATE CONSIDERED <i>8-5-04</i>
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Page 1 of 62

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA2	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman et al.	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebee, R.L., et al.	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas et al.	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas et al.	435	172.3	01/20/1995
	AK1	5,658,772	08/19/1997	Odell et al.	435	172.3	07/27/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AA2	AL1	EP 0 160 571 A2	11/06/1985	Europe	X	X	Yes
	AM1	EP 0 300 422	01/25/1989	Europe			No
	AN1	WO 91/02801	03/07/1991	WIPO PCT			Yes
	AO1	WO 91/16427	10/31/1991	WIPO PCT			No
	AP1	WO 92/20791	11/26/1992	WIPO PCT			Yes

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AA2	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage λ <i>xis</i> Gene Product Required for λ Exclusive Recombination," <i>J. Biol. Chem.</i> 257(16):9658-9662 (1982).
	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514 (1984).
	AT	1	Abremski, K., et al., "Bacteriophage P1 Cre- <i>loxP</i> Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261(1):391-396 (1986).

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* All References Considered AA2

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA2	AA2	5,677,170	10/14/1997	Devine et al.	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl et al.	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver et al.	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson et al.	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges et al.	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum et al.	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
	AK2	5,837,242	11/17/1998	Holliger et al.	424	136.1	05/14/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AA2	AL2	WO 93/15191	08/05/1993	WIPO PCT			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO PCT			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/17176	08/04/1994	WIPO PCT			Yes No
AA2	AP2	WO 97/06265	02/20/1997	WIPO PCT			Yes No

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AA2	AR	2	Abremski, K., et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," <i>Cell</i> 32:1301-1311 (1993).
	AS	2	Adams, D. E., et al., "Cre-lox Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>In Vitro</i> Reaction," <i>J. Mol. Biol.</i> 226:661-673 (1992).
AA2	AT	2	Andrews, B.J., et al., "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803 (1985).

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B. L. L. L.

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8-5-04

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>AAO</i>	AA3	5,843,772	12/01/1998	Devine, S.E., <i>et al.</i>	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge <i>et al.</i>	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter <i>et al.</i>	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter <i>et al.</i>	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley <i>et al.</i>	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham <i>et al.</i>	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch <i>et al.</i>	435	172.3	11/05/1996
	AJ3	5,989,872	11/22/1999	Luo <i>et al.</i>	435	91.2	08/12/1997
<i>AAZ</i>	AK3	6,010,884	01/04/2000	Griffiths <i>et al.</i>	435	69.7	05/29/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>AAO</i>	AL3	WO 97/09436	03/13/1997	WIPO PCT			Yes No
	AM3	WO 97/25446	07/17/1997	WIPO PCT			Yes No
	AN3	WO 97/32481	09/12/1997	WIPO PCT			Yes No
	AO3	WO 98/10086	03/12/1998	WIPO PCT			Yes No
<i>AAZ</i>	AP3	WO 99/10488	03/04/1999	WIPO PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>AAZ</i>	AR	3	Andrews, B.J., <i>et al.</i> , "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2µm Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489 (1986).
	AS	3	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606 (1995).
<i>AAZ</i>	AT	3	Araki, H., <i>et al.</i> , "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37 (1992).

EXAMINER <i>R. L. H. Jr.</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

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0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA2	AA4	6,063,627	06/16/2000	McVey <i>et al.</i>	435	440	02/25/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	4	Argos, P., <i>et al.</i> , "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440 (1986).
	AS	4	Attung, T., <i>et al.</i> , "A versatile method for integration of genes and gene fusions into the λ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17 (1991).
Y AA2	AT	4	Ausubel, F.M., <i>et al.</i> , "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, (1995).

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A. W. A. f

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8-5-04

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FORM PTO-1449

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November 12, 1999GROUP
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	AR	5	Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: <i>Current Protocols in Molecular Biology</i> , Boston: John Wiley & Sons, Inc., pp. 8.5.1-8.5.9 (1995). /
↓	AS	5	Babineau, D. et al., "The FLP Protein of the 2-micro Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391 (1985).
ADD	AT	5	Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p _L expression vectors," <i>Gene</i> 138:101-104 (January 1994).

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A. L. Lippert

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November 12, 1999GROUP
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	6	Bayley, C.C., et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361 (1992).
AS	6	Bethke, B., and Saur, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834 (July 1997).
AT	6	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid CcdB Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745 (1992).

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Dr. [Signature]

DATE CONSIDERED

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		APPLICANT Gerard et al.			
		FILING DATE November 12, 1999		GROUP 1636	

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA2 ↓ AA2	AR	I	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323 (1996).
	AS	I	Betz, U. A. K., et al., "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316 (1996).
	AT	I	Bhandari, P and Gowrishankar, J., "An <i>Escherichia coli</i> host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol</i> 179:4403-4406 (July 1997).

EXAMINER <i>Be Luppig</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.6640001APPLICATION NO.
09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

402	AR	B	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101 (1986).
↓	AS	B	Bloch, C.A., <i>et al.</i> , "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111 (1996).
↓ 407	AT	B	Bochner, B. R., <i>et al.</i> , "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933 (1980).

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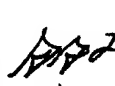
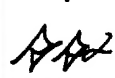
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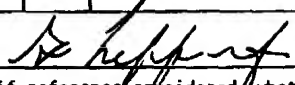
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21(4):817-821 (1993).
↓	AS	2	Broach, J. R., <i>et al.</i> , "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," <i>Cell</i> 29:227-234 (1982).
↓ 	AT	2	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and <i>cre/lox</i> -Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318 (1993).

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	10	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by <i>In Vivo</i> cre/lox-Mediated Recombination," <i>BioTechniques</i> 16(6):1061-1064 (1994).
AS	10	Bubeck, P., et al., "Rapid cloning by homologous recombination <i>in vivo</i> ," <i>Nucl. Acids Res.</i> 21:3601-3602 (1993).
AT	10	Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24(15):3118-3119 (1996).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	11	Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24(21):4256-4262 (1996).
↓	AS	11	Bushman, W., et al., "Control of Directionality in Lambda Site Specific Recombination," <i>Science</i> 230:906-911 (1985).
AA2	AT	11	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," <i>J. Bacteriol.</i> 174(23):7495-7499 (1992).

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RAA	AR	12	Chapin, S.J. et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," <i>Biochem. 34</i> :2289-2301 (1995).
↓	AS	12	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed <i>loxP</i> site," <i>Nucl. Acids Res. 25</i> :2205-2212 (June 1997).
↓	AT	12	Craig, W.L. and Nash, H.A., "The mechanism of phage lambda site-specific recombination: site-specific breakage of DNA by Int topoisomerase," <i>Cell 35</i> :795-803 (1983).

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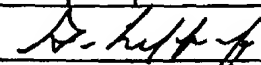
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AR	13	Cox, M.W., "The FLP protein of the yeast 2- μ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227 (1983).
	AS	13	Dale, E. C. and Ow, D. W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85 (1990).
	AT	13	Dale, E. C. and Ow, D. W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562 (1991).

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09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
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ADD	AR	14	Dang, D. T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375 (1992).
	AS	14	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50 (1996).
ADD	AT	14	Devine, S. E., and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis," <i>Nucl. Acids Res.</i> 22(18):3765-3772 (1994).

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Gerard *et al.*FILING DATE
November 12, 1999GROUP
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AD2	AR	15	Diederich, L., <i>et al.</i> , "New Cloning Vectors for Integration into the λ Attachment Site <i>attB</i> of the <i>Escherichia coli</i> Chromosome," <i>Plasmid</i> 28:14-24 (1992)
	AS	15	Dymecki, S. M., "A modular set of <i>Fip</i> , <i>FRT</i> and <i>lacZ</i> fusion vectors for manipulating genes by site-specific recombination," <i>Gene</i> 171:197-201 (1996).
AD2	AT	15	Elledge, S. J., <i>et al.</i> , " λ YES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735 (1991).

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D. Heppner

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FORM PTO-1449

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09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

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AB2	AR	16	Feil, R., <i>et al.</i> , "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757 (August 1997).
	AS	16	Ferguson, J., <i>et al.</i> , "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197 (1981).
AB2	AT	16	Filutowicz, M., <i>et al.</i> , "Purification of the <i>Escherichia coli</i> integration host factor (INF) in one chromatographic step," <i>Gene</i> 147:149-150 (1994).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	17	Fiering, S., et al., "An 'in-out' strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the β -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473 (1993).
	AS	17	Francia, M.V., et al., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Trn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898 (1996).
↓ AAZ	AT	17	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:7905-7909 (1992).

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AAL ↓ AAT	AR	18	Geoffroy, F., et al., "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," <i>Gene</i> 151:109-113 (1994).
	AS	18	Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," <i>J. Biol. Chem.</i> 264:10072-10082 (1989).
	AT	18	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," <i>Cell</i> 59:499-509 (1989).

EXAMINER <i>B. L. H. J.</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	19	Gu, W., et al., "Deletion of a DNA polymerase beta gene segment in T cells using cell type-specific gene targeting," <i>Science</i> 265:103-106 (1994).
↓	AS	19	Guo, F., et al., "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," <i>Proc. Natl. Acad. Sci. USA</i> 96:7143-7148 (June 1999).
AAZ	AT	19	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," <i>J. Virol.</i> 71(3):1842-1849 (March 1997).

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A. Lupp

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AP						Yes No

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AB2	AR	20	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p_{lac} promoter," <i>Gene</i> 56:145-151 (1987).
↓	AS	20	Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of <i>ori</i> plasmids and their in vivo chromosomal integration and retrieval," <i>Gene</i> 150:51-56 (1994).
AB2	AT	20	Hashimoto-Gotoh, T., et al., "Improved vector, pMSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," <i>Gene</i> 41:125-128 (1986).

EXAMINER	<i>D. L. H. f.</i>	DATE CONSIDERED	8-5-04
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AA2	AR	21	Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," <i>Meth. Enzymol.</i> 194:329-342 (1991).
↓	AS	21	Hoess, R.H., et al., "p1 site-specific recombination: Nucleotide sequence of the recombining sites," <i>Proc. Natl. Acad. Sci. USA</i> 79:3398-3402 (1982).
↓	AT	21	Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," <i>J. Mol. Biol.</i> 181:351-362 (1985).

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	APPLICANT Gerard <i>et al.</i>	
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AA2	AR	22	Hoess, R., <i>et al.</i> , "Formation of small circular DNA molecules via an in vitro site-specific recombination system," <i>Gene</i> 40:325-329 (1985).
	AS	22	Hoess, R. H., <i>et al.</i> , "The role of the <i>loxP</i> spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14(5):2287-2300 (1986).
AA2	AT	22	Hoess, R. H., and Abrenski, K., "The Cre- <i>lox</i> Recombination System," in: <i>Nucleic Acids and Molecular Biology</i> , Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp. 99-109 (1990).

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Gerard et al.FILING DATE
November 12, 1999GROUP
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AA2	AR	23	Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," <i>Gene</i> 133:95-97 (1993).
	AS	23	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137 (1991).
AA2	AT	23	Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," <i>J. Bacteriol.</i> 163:841-849 (1985).

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AA2	AR	24	Kanaar, R., et al., "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between <i>Cis</i> -Acting Sites," <i>Cell</i> 58:147-159 (1989).
	AS	24	Kilby, N. J., et al., "Site-specific recombinases: tools for genome engineering," <i>Trends in Genetics</i> 9:413-421 (1993).
AA2	AT	24	Kim, et al., "Lambda Int protein between higher complexes at two distant chromosomal loci attL and attR," <i>Science</i> 256:198-263 (1992).

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R. Hupp f.

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AA2	AR	25	Kozak, M., "Comparison of initiation of protein synthesis in procaryotes, eucaryotes, and organelles," <i>Microbiol. Rev.</i> 47:1-45 (1983).				
	AS	25	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," <i>Nucl. Acids Res.</i> 15:8125-8132 (1987).				
AA2	AT	25	Kozak, M., "Structural features in eukaryotic mRNAs that modulate the initiation of translation," <i>J. Biol. Chem.</i> 266:19867-19870 (1991).				

EXAMINER <i>B. Kupp</i>	DATE CONSIDERED 8-3-04
EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	26	Kühn, R., <i>et al.</i> , "Inducible Gene Targeting in Mice," <i>Science</i> 269:1427-1429 (1995).
	AS	26	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," <i>Nucl. Acids Res.</i> 24:2469-2472 (1996).
V AAZ	AT	26	Lukso, M., <i>et al.</i> , "Targeted oncogene activation by site-specific recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6232-6236 (1992).

EXAMINER <i>A. Lippert</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	27	Lander, E.S., "The New Genomics: Global Views of Biology," <i>Science</i> 274:536-539 (1996).
	AS	27	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Opin. Genet. Develop.</i> 3:699-707 (1993).
AAZ	AT	27	Landy, A., "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," <i>Annu. Rev. Biochem.</i> 58:913-949 (1989).

EXAMINER

D. Lippert

DATE CONSIDERED

8-5-04

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	FILING DATE November 12, 1999	GROUP 1636

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	28	Lebreton, B., <i>et al.</i> , "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," <i>Genetics</i> 118:393-400 (1988).
	AS	28	Lee, E. C., <i>et al.</i> , "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage λ H ⁺ Recognition Site," <i>J. Bacteriol.</i> 173:609-617 (1991).
AA2	AT	28	Leong, J.W., <i>et al.</i> , "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994 (1985).

EXAMINER <i>A. J. J.</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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AR	22	Liu, Q., et al., "The univector plasmid-fusion system, a method for rapid construction o recombinant DNA without restriction enzymes," <i>Curr. Biol.</i> 8:1300-1309 (December 1998).
AS	22	Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," <i>J. Mol. Biol.</i> 296:1175-1181 (March 2000).
AT	22	Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," <i>J. Virol.</i> 67(8):4566-4579 (1993).

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AAZ	AR	30	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyse site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176 (1991).
↓	AS	30	Mahillon, J., <i>et al.</i> , "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26 (1994).
↓	AT	30	Matsuzaki, H., <i>et al.</i> , "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618 (1990).

EXAMINER

A. Lupp f.

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	APPLICANT Gerard et al.	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AR	31	McCarthy, J.E. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet</i> 10:402-407 (1994).					
AS	31	Medberry, S.L., et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," <i>Nucl. Acids Res.</i> 23:485-490 (1995).					
AT	31	Miki, T. et al., "Control of S of Chromosomal DNA by Sex Factor F in <i>Escherichia coli</i> . Mutants of DNA Gyrase Subunit A Suppress <i>letD</i> (<i>ccdB</i>) Product Growth Inhibition," <i>J. Mol. Biol.</i> 225:39-52 (1992).					

EXAMINER	<i>A. Huber f.</i>	DATE CONSIDERED	8-5-04
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	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
742	AR	32	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ : In Vitro Study of the Intermolecular Reaction," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 43:1111-1114 (1979).
↓	AS	32	Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," <i>Nucl. Acids Res.</i> 13:1193-1208 (1985).
742	AT	32	Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," <i>Mol. Gen. Genet</i> 236:1-7 (1992).

EXAMINER	<i>A. Luff</i>	DATE CONSIDERED	8-5-04
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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AP						Yes No

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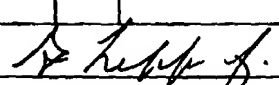
AR	33	Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," <i>Nucl. Acids Res.</i> 25(12):2539-2540 (June 1997).
AS	33	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ ," <i>J. Bacteriol.</i> 172:6540-6550 (1990).
AT	33	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," <i>Proc. Natl. Acad. Sci. USA</i> 72:1072-1076 (1975).

EXAMINER	<i>St. Lefevre</i>	DATE CONSIDERED	8-5-04
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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA2	AR	34	Nash, H.A., and Robertson, CA., "Purification and properties of the Escherichia coli protein factor required for lambda integrative recombination," <i>J. Biol. Chem.</i> 256:9246-9253 (1981).
↓	AS	34	Nash, H. A., "Purification and Properties of the Bacteriophage Lambda Int Protein," <i>Meth. Enzymol.</i> 100:210-216 (1983).
AA2	AT	34	Nash, H. A., et al., "Role of homology in site-specific recombination of bacteriophage λ: Evidence against joining of cohesive ends," <i>Proc. Natl. Acad. Sci. USA</i> 84:4049-4053 (1987).
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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AM					Yes No
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	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AA2	AR	35	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," <i>EMBO J.</i> 8:3523-3533 (1989).
↓	AS	35	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage lambda," <i>Trends Biochem. Sci</i> 15:222-227 (1990).
↓	AT	35	Numrych, T. E., et al., "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," <i>Nucl. Acids Res.</i> 18:3953-3959 (1990).

EXAMINER	<i>A. Luff</i>	DATE CONSIDERED	8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	36	Nunrych, T.E., et al., "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis-integrase cooperativity but not for DNA binding," <i>EMBO J.</i> 11(10):3797-3806 (1992).
AS	36	Nunes-Duby, S.E., et al., "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in λ Excisive Recombination," <i>Cell</i> 59:197-206 (1989).
AT	36	Nunes-Duby, et al., "Similarities and differences among 105 members of the Int family of site-specific recombinases," <i>Nucl. Acids Res.</i> 26:391-406 (January 1998).

EXAMINER

D. Heppner

DATE CONSIDERED

8-5-04

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FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

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0942.4640001

APPLICATION NO.
09/438,358

APPLICANT
Gerard *et al.*

FILING DATE
November 12, 1999

GROUP
1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ADD	AR	37	Oberto, J., <i>et al.</i> , "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," <i>Nucl. Acids Res.</i> 22(3):354-356 (1994).
↓	AS	37	Oliner, J.D., <i>et al.</i> , "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197 (1993).
ADD	AT	37	Orban, P. C., <i>et al.</i> , "Tissue- and site-specific DNA recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6861-6865 (1992).

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Gerard *et al.*FILING DATE
November 12, 1999GROUP
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AAZ	AR	38	Osborne, B.L., <i>et al.</i> , "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-lox," <i>Plant J.</i> 7:687-701 (1995).
↓	AS	38	Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35 (1996).
↓	AT	38	Palazzolo, M. J., <i>et al.</i> , "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36 (1990).

EXAMINER

A. H. H. f

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November 12, 1999GROUP
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ADD	AR	32	Pan, G., <i>et al.</i> , "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689 (1993).
↓	AS	32	Parks, R.J., and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," <i>J. Virol.</i> 71(4):3293-3298 (April 1997).
ADD	AT	32	Peakman, T. C., <i>et al.</i> , "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific <i>in vitro</i> recombination," <i>Nucl. Acids Res.</i> 20:495-500 (1992).

EXAMINER

Steph J

DATE CONSIDERED

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	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AB2	AR	40	Peredelchuk, M.Y., and Bennett, G.W., "A method for construction of <i>E. coli</i> strains with multiple DNA insertions in the chromosome," <i>Gene</i> 187:231-238 (March 1997).
↓	AS	40	Pichel, J. G., <i>et al.</i> , "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," <i>Gene</i> 8:3333-3342 (1993).
↓ AB2	AT	40	Pierce, J. C., <i>et al.</i> , "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 89:2056-2060 (1992).

EXAMINER <i>D. Lipp</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	41	Podhajska, A. J., <i>et al.</i> , "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated <i>att-nutL-p-att-N</i> module," <i>Gene</i> 40:163-168 (1985).
	AS	41	Pósfai, G., <i>et al.</i> , "In vivo excision and amplification of large segments of the <i>Escherichia coli</i> genome," <i>Nucl. Acids Res.</i> 22(12):2392-2398 (1994).
AA2	AT	41	Prasad, P. V., <i>et al.</i> , "Substrate Recognition by the 2 μ m Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," <i>Mol. Cell. Biol.</i> 6:4329-4334 (1986).

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A. J. P. J.

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8-5-04

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	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	42	Qian, X., et al., "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," <i>J. Biol. Chem</i> 267(11):7794-7805 (1992).
AS	42	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," <i>Cell</i> 25:713-719 (1981).
AT	42	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," <i>Cell</i> 25:721-728 (1981).

EXAMINER <i>R. Luff</i>	DATE CONSIDERED 8-5-04
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	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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AA2	AR	43	Richet, E., <i>et al.</i> , "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," <i>Cell</i> 46:1011-1021 (1986).
↓	AS	43	Richet, E., <i>et al.</i> , "Synopsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," <i>Cell</i> 52:9-17 (1988).
↓	AT	43	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," <i>J. Bacteriol.</i> 165(2):341-347 (1986).

EXAMINER <i>S. Hupp</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AR	44	Sadowski, PD, "The Flp recombinase of the 2-microns plasmid of <i>Saccharomyces cerevisiae</i> ," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> 51:53-91 (1995).
	AS	44	Sauer, B., <i>et al.</i> , "Site-specific insertion of DNA into a pseudorabies virus vector," <i>Proc. Natl. Acad. Sci. USA</i> 84:9108-9112 (1987).
	AT	44	Sauer, B., "Functional Expression of the <i>cre-lox</i> Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 7:2087-2096 (1987).

EXAMINER <i>P. J. J.</i>	DATE CONSIDERED 8-3-04
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	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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AA2	AR	45	Sauer, B. and Henderson, N., "The cyclization of linear DNA in <i>Escherichia coli</i> by site-specific recombination," <i>Gene</i> 70:331-341 (1988).
	AS	45	Sauer, B. and Henderson, N., "Cre-stimulated recombination at <i>loxP</i> -containing DNA sequences placed into the mammalian genome," <i>Nucl. Acids Res.</i> 17:147-161 (1989).
AA2	AT	45	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," <i>Meth. Enzymol.</i> 225:890-900 (1993).

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A. K. Hoff

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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AR	46	Sauer, B., "Site-specific recombination: developments and applications," <i>Curr. Op. Biotechnol.</i> 5:521-527 (1994).
AS	46	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24(23):4608-4613 (1996).
AT	46	Sauer, B., "Inducible gene targeting in mice using the Cre/lox system," <i>Methods</i> 14:381-392 (April 1998).

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B. H. H. f.

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4640001	APPLICATION NO. 09/438,358
	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	47	Schindelhauer, D., and Cooke, H.J., "Efficient combination of large DNA <i>in vitro</i> : in gel site specific recombination (IGSSR) of PAC fragments containing α satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243 (June 1997).
AS	47	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochemistry</i> 33:12746-12751 (1994).
AT	47	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576 (1993).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard et al.FILING DATE
November 12, 1999GROUP
1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	48	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463 (1996).
	AS	48	Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 μ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421 (1988).
↓ AA2	AT	48	Sheffield, P. et al., "Overcoming expression and purification problems of RhoGDI using a family of "parallel" expression vectors," <i>Protein Expr. Purific.</i> 15:34-39 (February 1999).

EXAMINER

D. L. H. f

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	49	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108 (1991).	
AS	42	Sizemore, C., et al., "Quantitative analysis of <i>Tn10</i> Tet repressor binding to a complete set of <i>tet</i> operator mutants," <i>Nucl. Acids Res.</i> 18(10):2875-2880 (1990).	
AT	42	Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," <i>Nat. Gen.</i> 9:376-385 (1995).	

EXAMINER <i>12/1/99</i>	DATE CONSIDERED <i>8-5-04</i>
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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	50	Snaith, M.R., et al., "Multiple cloning sites carrying <i>loxP</i> and <i>FRT</i> recognition sites for the Cre and Flp site-specific recombinases," <i>Gene</i> 166:173-174 (1995).
↓	AS	50	Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," <i>Cell</i> 42:325-334 (1985).
↓	AT	50	Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 45:297-309 (1981).

EXAMINER <i>A. L. Hoff</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	51	Sternberg, N., <i>et al.</i> , "Bacteriophage P1 <i>cre</i> Gene and its Regulatory Region," <i>J. Mol. Biol.</i> 187:197-212 (1986).
↓	AS	51	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," <i>Proc. Natl. Acad. Sci. USA</i> 87:103-107 (1990).
AA2	AT	51	Storck, T., <i>et al.</i> , "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," <i>Nucl. Acids Res.</i> 24:4594-4596 (1996).

EXAMINER

A. Lubbock

DATE CONSIDERED

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	APPLICANT Gerard <i>et al.</i>	
	FILING DATE November 12, 1999	GROUP 1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	52	Strathmann, M., <i>et al.</i> , "Transposon-facilitated DNA sequencing," <i>Proc. Natl. Acad. Sci. USA</i> 88:1247-1250 (1991).
	AS	52	Thompson, J.F., <i>et al.</i> , "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351 (1986).
↓ AAZ	AT	52	Thompson, J.F., <i>et al.</i> , "Helical-repeat dependence of integrative recombination of bacteriophage λ : Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327 (1988).

EXAMINER <i>H. K. [Signature]</i>	DATE CONSIDERED 8-5-04
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FORM PTO-1449

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09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

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ADD	AR	53	Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," <i>Proc. Natl. Acad. Sci. USA</i> 95:5505-5510 (May 1998).
	AS	53	Tsurushita, N., <i>et al.</i> , "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," <i>Gene</i> 172:59-63 (1996).
ADD	AT	53	Vanin, E.F., <i>et al.</i> , "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," <i>J. Virol.</i> 71:7820-7826 (October 1997).

EXAMINER

A. Luff

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09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
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ADD	AR	54	Waterhouse, P., <i>et al.</i> , "Combinatorial infection and <i>in vivo</i> recombination; a strategy for making large phage antibody repertoires," <i>Nucl. Acids Res.</i> 21(9):2265-2266 (1993).
↓	AS	54	Wang, G., <i>et al.</i> , "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878 (1993).
ADD	AT	54	Wasserman, S.A., <i>et al.</i> , "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," <i>Nature</i> 334:448-450 (1988).

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	55	Wierzbicki, A., et al., "A Mutational Analysis of the Bacteriophage P1 Recombinase Cre," <i>J. Mol. Biol.</i> 195:785-794 (1987).
	AS	55	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. V. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
AA2	AT	55	Wild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene</i> 179:181-188 (1996).

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D. Lipp f.

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8-5-04

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4640001APPLICATION NO.
09/438,358APPLICANT
Gerard *et al.*FILING DATE
November 12, 1999GROUP
1636

U.S. PATENT DOCUMENTS

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AR	56	Wild, J., <i>et al.</i> , "Targeting and retrofitting pre-existing libraries of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66 (November 1998).
AS	56	Winoto, A., <i>et al.</i> , "Directional Control of Site-specific Recombination by Bacteriophage λ ," <i>J. Mol. Biol.</i> 192:677-680 (1986).
AT	56	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," <i>Structure</i> 5:1401-1406 (November 1997).

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A. Luff

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AP2	AR	57	Yanisch-Perron, C., <i>et al.</i> , "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," <i>Gene</i> 33:103-119 (1985).
↓	AS	57	Yoon, Y.G., <i>et al.</i> , "Cre/loxP-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 μm plasmid-derived system," <i>Gene</i> 223:67-76 (November 1998).
↓ AS2	AT	57	York, D., <i>et al.</i> , "Simple and efficient generation <i>in vitro</i> of nested deletions and inversions: Tn5 intramolecular transposition," <i>Nucl. Acids Res.</i> 26:1927-1933 (April 1998).

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Richard A. Truffel

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AA2	AR	58	Zhang, Y. <i>et al.</i> , "A new logic for DNA engineering using recombination in <i>Escherichia coli</i> ," <i>Nat. Genet.</i> 20:123-128 (October 1998).
	AS	58	Zhu, <i>et al.</i> , "Homology requirements for ligation and strand exchange by the FLP recombinase," <i>J. Biol. Chem.</i> 270:11646-11653 (1995).
V AA2	AT	58	Bruckner, R.C. and Cox, M.M., "The histone-like H protein of <i>Escherichia coli</i> is ribosomal protein S3," <i>Nucl. Acids Res.</i> 17:3145-3161 (1989).

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A. H. H. f

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

U.S. PATENT DOCUMENTS							
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AD2	AR	59	Gage, P.J., et al., "A Cell-Free Recombination System for Site-Specific Integration of Multigenic Shuttle Plasmids into Herpes Simplex Type 1 Genome," <i>J. Virol.</i> 66:5509-5515 (1992).
	AS	59	Götz, F., et al., "Escherichia coli 30S mutants lacking protein S20 are defective in translation initiation," <i>Biochim. Biophys. Acta</i> 1050:93-97 (1990).
AT	AT	59	Green, R. and Noller, H.F., "Ribosomes and Translation," <i>Ann. Rev. Biochem.</i> 66:679-716 (July 1997).

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A. Lippert

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	FILING DATE November 12, 1999	GROUP 1636

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AB2	AR	60	Jeong, J.-H., et al., "Cloning and nucleotide sequencing of the genes, <i>rplU</i> and <i>rpmA</i> , for ribosomal proteins L21 and L27 of <i>Escherichia coli</i> ," <i>J. DNA sequencing and Mapping</i> 4:59-67 (1993).
↓	AS	60	Kitts, P.A. and Nash, H.A., "Bacteriophage Lambda Site-Specific Recombination Proceeds with a Defined Order of Strand Exchanges," <i>J. Mol. Biol.</i> 204:95-107 (1988).
AB2	AT	60	Lake, J.A., "Evolving Ribosome Structure: Domains in Archaeobacteria, Eubacteria, Eocytes and Eukaryotes," <i>Ann. Rev. Biochem.</i> 54:507-530 (1985).

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	APPLICANT Gerard et al.	
	FILING DATE November 12, 1999	GROUP 1636

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<div style="text-align: center;"> </div>	AR	61	Mackie, G.A., "Nucleotide Sequence of the Gene for Ribosomal Protein S20 and Its Flanking Regions," <i>J. Biol. Chem.</i> 256:8177-8182 (1981).
	AS	61	Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," <i>Ann. Rev. Biochem.</i> 53:75-117 (1984).
<div style="text-align: center;"> </div>	AT	61	Segall, A.M., et al., "Architectural elements in nucleoprotein complexes: interchangeability of specific and non-specific DNA-binding proteins," <i>EMBO J.</i> 13:4536-4548 (1994).
EXAMINER <i>A. L. H. f.</i>			DATE CONSIDERED 8-5-04
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FORM PTO-1449

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0942.4640001APPLICATION NO.
09/438,358APPLICANT
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November 12, 1999GROUP
1636

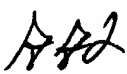

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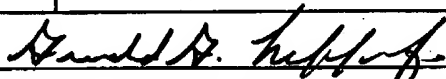
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	AP						Yes No

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	AR	<u>62</u>	Wittman, H.G., "Components of Bacterial Ribosomes," <i>Ann. Rev. Biochem.</i> 51:155-183 (1982).
	AS	<u>62</u>	Wittmann, H.G., "Architecture of Prokaryotic Ribosomes," <i>Ann. Rev. Biochem.</i> 52:35-65 (1983).
	AT	<u>62</u>	

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